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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-4693-2020

ScopusID: 55192219300

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey 2016 - 2021

Postgraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Kimya Mühendisliği , Turkey 2014 - 2016

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 2013 - 2014

Undergraduate, Marmara University, Faculty Of Engineering, Kimya Mühendisliği , Turkey 2009 - 2013

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Bioprocess Separation Processes, Biotechnological Processes and Fermentation Technology, Process Design, Microbial Biochemistry, Biotechnology, Microbiology, Molecular Biology and Genetics

Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2021 - Continues

Researcher, Brno University of Technology, Faculty of Chemistry, Institute of Food Science and Biotechnology, 2024 - 2024

Researcher, Högskolan i Borås (University College of Borås), Swedish Centre for Resource Recovery, Department of Resource Recovery and Building Technology, 2023 - 2023

Researcher, University of Stavanger, Faculty of Science and Technology, Department of Chemistry, Bioscience and Environmental Engineering, 2023 - 2023

Researcher, Aalto University, School of Chemical Engineering, Department of Bioproducts and Biosystems , 2021 - 2021

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2013 - 2021

Researcher, Tokyo Institute of Technology, Transdisciplinary Science and Engineering, 2018 - 2019

Researcher, National University of Malaysia , Faculty of Science and Technology, Department of Biological Sciences and Biotechnology, 2015 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Recombinant proteins production in Escherichia coli BL21 for vaccine applications: a cost estimation of potential industrial-scale production scenarios**
Akmayan I., Öztürk A. B., Ozbek T.
Preparative Biochemistry and Biotechnology, vol.54, no.7, pp.932-945, 2024 (SCI-Expanded)
- II. **Remediation of sulfur in two Turkish lignites under various treatments**
Gulen J., ÖZTÜRK A. B., Boztepe A.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.3, pp.6456-6465, 2022 (SCI-Expanded)
- III. **Techno-economic analysis of a two-step fermentation process for bio-butanol production from cooked rice**
Ozturk A. B., Arasoğlu T., Gulen J., Cheng S., Al-Shorgani N. K. N., Habaki H., Egashira R., Kalil M. S., Yusoff W. M. W., Cross J. S.
SUSTAINABLE ENERGY & FUELS, vol.5, pp.3705-3718, 2021 (SCI-Expanded)
- IV. **Two-step fermentation of cooked rice with Aspergillus oryzae and Clostridium acetobutylicum YM1 for biobutanol production**
Öztürk A. B., Al-Shorgani N. K. N., Cheng S., Arasoğlu T., Gülen F. J., Habaki H., Egashira R., Kalil M. S., Yusoff W. M. W., Cross J. S.
BIOFUELS-UK, pp.1-8, 2020 (SCI-Expanded)
- V. **Chemical beneficiation of two Turkish lignites with various chemical treatments**
Gülen F. J., Boztepe A., Öztürk A. B., Kaya M., Kumral M.
Periodico Di Mineralogia, no.89, pp.135-143, 2020 (SCI-Expanded)
- VI. **Characterization study and optimization of swelling behavior for p(HEMA-co-Eudragit L-100) hydrogels by using Taguchi Method**
ÖZGÜNDÜZ H. İ., ÖZTÜRK A. B., KANDİLCİ H. G., ACARALI N.
Bio-Medical Materials And Engineering, vol.29, pp.191-203, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Biobutanol production from underutilized substrates using Clostridium: Unlocking untapped potential for sustainable energy development**
Nabila D. S., Chan R., Syamsuri R. R. P., Nurlilasari P., Wan-Mohtar W. A. A. Q. I., ÖZTÜRK A. B., Rossiana N., Doni F.
Current Research in Microbial Sciences, vol.7, 2024 (Scopus)
- II. **Microfluidics System for Plant Cell Studies and Student Training**
Ali S., Öztürk A. B., Wondimu A., Asmatulu E.
Transactions on Techniques in STEM Education, vol.4, no.1, pp.48-55, 2020 (Peer-Reviewed Journal)
- III. **IMPROVEMENT OF WATER-BASED INTERIOR DYES PREPARED BY USING NATURAL MINERAL AND FIBER INDUSTRIAL PLANT**
Gures S., Cifte T., ACARALI N., ÖZTÜRK A. B., Kandilci H. G., ÖZGÜNDÜZ H. İ., Sarac H.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.34, no.1, pp.105-113, 2016 (ESCI)

Papers Published in Refereed Scientific Meetings

- I. **Process Simulation and Techno-Economic Evaluation of Various Polyhydroxyalkanoates (PHA) Production Processes**
Öztürk A. B., Kourilova X., Obruča S.
9th Meeting on Chemistry & Life, Brno, Czech Republic, 12 - 13 September 2024, pp.45
- II. **Biorefinery processes integration towards carbon neutrality**
Öztürk A. B.
Virtual International Conference: Biodiversity and Biotechnology for Food Security and Sustainability, Bandung, Indonesia, 4 - 05 November 2023, pp.1
- III. **Utilization of lignocellulosic waste for sustainable biofuel production: A comparative process simulation and techno-economic evaluation**
Öztürk A. B., Seeman G., Kumar G.
WIRE's 4th Working Groups Workshop, Cottbus, Germany, 4 - 05 October 2023, pp.1
- IV. **Economic feasibility of lignocellulosic wastes in Norway for sustainable biofuel production**
Öztürk A. B., Semaan G., Kumar G.
International Sustainable Resource Recovery Strategies Toward Zero Waste (FULLRECO4US) Conference, İstanbul, Turkey, 13 - 15 September 2023, pp.1
- V. **Comparative Techno-Economic Analysis of Industrial-Scale Biobutanol Production Processes for the Efficient Waste Management**
Öztürk A. B., Özbek T.
9th International Conference on New Trends in Chemistry, Skopje, Macedonia, 19 - 21 May 2023, pp.1
- VI. **Process Simulation of Biohythane Production by Two-Stage Anaerobic Fermentation Process**
Şencan S., Öztürk A. B., Gülen J.
2nd International Conference on Innovative Academic Studies, Konya, Turkey, 28 - 31 January 2023, pp.1-4
- VII. **Techno-Economic Analysis of FDCA Production From Biomass and Bioethanol as a Co-Product**
Doyranlı Ö., Şildir H., Oruç M. E., Öztürk A. B.
Rumeli 1ST International Scientific Research Conference On Sustainable Engineering And Technology (ISRASET'22), İstanbul, Turkey, 13 - 15 May 2022, vol.1, pp.44
- VIII. **Nişasta İçerikli Ham Maddelerden İki Adımlı Fermantasyon Yoluyla Biyobütanol Üretimi için Endüstriyel Boyutta Tesis Tasarımı ve Ekonomik Analizi**
Öztürk A. B., Gülen F. J., Arasoğlu T.
14. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 12 June 2021, pp.1
- IX. **Microfluidics-based Learning and Analysis for Plant Cell Studies**
Ali S., Öztürk A. B., Wondimu A., Asmatulu E.
2019 ASEE Midwest Section Conference, Kansas, United States Of America, 15 - 17 September 2019, pp.1
- X. **Production of Biobutanol from Cooked-Rice by Two-Step Fermentation**
Öztürk A. B., Arasoğlu T., Gülen F. J., Cross J. S.
JAPAN-CHINA-KOREA Joint Symposium on Energy and Environment, Nagano, Japan, 5 - 07 September 2019, pp.1
- XI. **An Investigation of Energy Saving with Thermal Physical and Chemical Properties of Plastic Parts Containing Zinc Borate in Automotive Industry**
Çakırsoy A., Öztürk A. B., Özgündüz H. İ., Acaralı N.
ICES2016, İstanbul, Turkey, 21 - 23 December 2016
- XII. **A STUDY ON THERMOCHEMICAL AND BIOCHEMICAL CONVERSION TECHNOLOGIES FOR BIOMASS RESIDUES**
ÖZGÜNDÜZ H. İ., ACARALI N., ÖZTÜRK A. B., ÇAKIRSOY A., GÜLEN F. J.
2. International Conference on Energy Systems, (ICES-2016), 21 - 23 December 2016
- XIII. **Enhancement biobutanol tolerance of Clostridium species and sustainable butanol production methods**
Öztürk A. B., Özgündüz H. İ., Acaralı N., Gülen F. J.
4 th Macrotrend Conference Paris 2016, Paris, France, 20 - 21 December 2016
- XIV. **Enhancement of Corrosion Resistance of Dyes Including Synthetic and Natural Additives**
Öztürk A. B., Özgündüz H. İ., Kandilci H. G., Saraç H.

Second International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 May 2016, pp.1

- XV. **Butanol Production from Agro-Industries Waste under Anaerobic Conditions**
ÖZTÜRK A. B., ÖZGÜNDÜZ H. İ., ACARALI N., SARAÇ H.
ICENS 2016, Sarajevo, Bosnia And Herzegovina, 24 May 2016, pp.1
- XVI. **A Study on Solvent Based Paints Including Boron Chemicals**
ACARALI N., ÖZGÜNDÜZ H. İ., ÖZTÜRK A. B., SARAÇ H.
ICENS 2016, Sarajevo, Bosnia And Herzegovina, 24 May 2016, pp.1
- XVII. **Characterization and Optimization of Pellets with Binders for Energy Plants**
ÖZGÜNDÜZ H. İ., ACARALI N., ÖZTÜRK A. B., SARAÇ H.
ICENS 2016, Sarajevo, Bosnia And Herzegovina, 24 May 2016, pp.1
- XVIII. **Optimization and Investigation of Solvent Based Dyes Including Boron Chemicals in Metal Industry**
ÇİFTE T., ACARALI N., ÖZTÜRK A. B., ÖZGÜNDÜZ H. İ., KANDİLCİ H. G., SARAÇ H.
Paintistanbul & Turkcoat 2016, İstanbul, Turkey, 24 March 2016, pp.1
- XIX. **Çimento Sektöründe Enerji Verimliliği ve Ekserji Analizleri**
KANDİLCİ H. G., ÖZTÜRK A. B., SARAÇ H.
3. Anadolu Enerji Sempozyumu, Muğla, Turkey, 01 October 2015, pp.1
- XX. **Investigation of Additives' Corrosion Inhibition Effects on Dye**
ÖZTÜRK A. B., ACARALI N., ÖZGÜNDÜZ H. İ., KANDİLCİ H. G., SARAÇ H.
ICFAE 2015: 17th International Conference on Food and Agricultural Engineering, Geneva, Switzerland, 07 September 2015, pp.1
- XXI. **Investigation of Thermal and Physical Properties for Construction Dyes Containing Different Boron Chemicals and Shellac**
ÖZTÜRK A. B., ACARALI N., SARAÇ H.
27th National Chemistry Conference, Çanakkale, Turkey, 24 August 2015, pp.1
- XXII. **Determining the Effective Parameters on Moisture Content for Solid Biomass Pellets Produced by Astragalus and Verbascum Thapsus**
Severoğlu A., Saygı Yalçın B., Öztürk A. B., Çelik S. E., Saraç H.
Fifth International Symposium on Energy from Biomass and Waste, Venice, Italy, 6 - 09 November 2014, pp.1
- XXIII. **The Solar Thermal Potential in Food Industry**
ERTEKİN MİS Ş., ÖZTÜRK A. B., TURŞUCU İ., İNCESU Ö., ÇİFTÇİOĞLU G. A., KADIRGAN N.
Third International 100% Renewable Energy Conference, İstanbul, Turkey, 27 June 2013, pp.1

Supported Projects

SAĞDIÇ O., ÖZÇİMEN D., KARASU S., ÜSTÜNDAĞ C. B., ÖZDEMİR O. K., ÖZTÜRK A. B., Project Supported by Higher Education Institutions, Ultrases ve Mikrodalga Destekli Kurutma Tekniklerinin Kiraz ve Vişne Meyvelerinin Kurutulmasında Alternatif Yöntem Olarak Kullanılması, 2022 - 2024

GÜLEN F. J., ÖZTÜRK A. B., ARASOĞLU T., Project Supported by Higher Education Institutions, İki Adımlı Fermantasyon ile Atık Pirinçten Sürdürülebilir Biyoyakıt Üretimi, 2020 - 2022

Mobility Activity

Erasmus Programme, Guest Researcher, Helsinki University of Technology, Finland, 2021 - 2021

Research Scholarship Program, Guest Researcher, Tokyo Institute of Technology, Japan, 2018 - 2019

Other, Guest Researcher, National University of Malaysia , Malaysia, 2015 - 2015

Metrics

Publication: 32
Citation (WoS): 7
Citation (Scopus): 16
H-Index (WoS): 2
H-Index (Scopus): 2

Scholarships

2214-A - Yurt Dışı Doktora Sırası Araştırma Burs Programı, TUBITAK, 2018 - 2019
2228-B Yüksek Lisans Öğrencileri İçin Doktora Burs Programı, TUBITAK, 2015 - 2019

Awards

ÖZTÜRK A. B., Kimya Mühendisliği Lisans Programı Mezuniyet Derecesi- Bölüm İkinciliği, Marmara Üniversitesi, June 2013